

# BJB Polyurethane ST-1085 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

## Message:

ST-1085 A/B is a tough, multi-purpose polyurethane-polyurea elastomer, useful for many applications and performance requirements.

Special product characteristics are as follows:

Does not contain MOCA, MDA, or MDI

Very easy to use; may be pigmented easily

Cures at room temperature

High tear strength and toughness

Hardness and durability similar to high grade vulcanized rubber

General Information			
Features	Good tear strength		
	Good coloring		
	Durability		
	Good toughness		
	Medium hardness		
RoHS Compliance	RoHS compliance		
Appearance	Transparent amber		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- <sup>1</sup>	1.06	g/cm <sup>3</sup>	ASTM D792
-- <sup>2</sup>	1.09	g/cm <sup>3</sup>	
--	1.10	g/cm <sup>3</sup>	
Specific Volume	0.928	cm <sup>3</sup> /g	ASTM D2566
Gel Time	35.0	min	
Work Time <sup>3</sup> (25°C)	25.0	min	
Cure Time	5.0 - 7.0	day	ASTM D2240
Molding Shrinkage - Flow	0.90	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80 - 90		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	5.25	MPa	ASTM D412
200% strain	6.87	MPa	ASTM D412
300% strain	8.40	MPa	ASTM D412
Tensile Strength (Break)	14.7	MPa	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Tear Strength	44.7	kN/m	ASTM D624

Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Component a	Mixing ratio by weight: 100, mixing ratio by capacity: 100		
Component B	Mixing ratio by weight: 55, mixing ratio by capacity: 57		
Shelf Life	26	wk	
Thermoset Mix Viscosity			Brookfield
25°C <sup>4</sup>	1060	cP	Brookfield
25°C <sup>5</sup>	6000	cP	Brookfield
25°C	3600	cP	Brookfield
Demold Time (25°C)	240 - 360	min	
Additional Information	Nominal Value	Unit	Test Method

Note: Physical properties obtained from test specimens post cured per recommended procedure. In order to achieve maximum physical properties, a post cure with heat is required. BJB recommends 24 hours at ambient temperature, 77°F (25°C), followed by 16 hours at 160°F (71°C).

#### NOTE

- |    |           |
|----|-----------|
| 1. | Part B    |
| 2. | Part A    |
| 3. | 100g mass |
| 4. | Part B    |
| 5. | Part A    |

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